

May 24, 2001

Re: **09/379,985 (US 5,726,079)**

Dear Examiner Glick,

Attached are the requested litigation search results.

Several patent litigation and news databases were searched using Dialog, Lexis-Nexis and Questel-Orbit search systems.

~~No~~ Litigation cases were found for this patent number.

Thank you for using EIC2800!

Paul Schulwitz
308-6559
CP4-9C18

Schulwitz, Paul (Signal)

From: Glick, Ed
Sent: Monday, May 21, 2001 4:39 PM
To: STIC-EIC2800
Subject: request for litigation search

Please perform a litigation search on US patent number 5,726,079 for placement in reissue application number 09/379,985.

Thanks

Ed Glick
Special Programs Examiner TC-2800
(703) 308-4858
Ed.Glick@uspto.gov

1/39/1

DIALOG(R) File 345: ~~Unpadoc/Fam. & Legal Stat~~
(c) 2001 EPO. All rts. reserv.

14211598

Basic Patent (No,Kind,Date): JP 10056103 A2 19980224 <No. of Patents: 005
>

Patent Family:

Patent No	Kind	Date	Applic No	Kind	Date	
JP 10056103	A2	19980224	JP 97154889	A	19970612	(BASIC)
JP 3121562	B2	20010109	JP 97154889	A	19970612	
US 5726079	A	19980310	US 715212	A	19960917	
US 5883430	A	19990316	US 842417	A	19970424	
US 6104093	A	20000815	US 80117	A	19980515	

Priority Data (No,Kind,Date):

US 666155 A 19960619
US 715212 A 19960917
US 666155 B3 19960619
US 842417 A 19970424
US 715212 A3 19960917
US 80117 A 19980515
US 842417 A2 19970424

PATENT FAMILY:

JAPAN (JP)

Patent (No,Kind,Date): JP 10056103 A2 19980224
FLIP CHIP PACKAGE AND ITS MANUFACTURING METHOD (English)
Patent Assignee: IBM
Author (Inventor): ERITSUKU AASAA JIYONSON
Priority (No,Kind,Date): US 666155 A 19960619
Applic (No,Kind,Date): JP 97154889 A 19970612
IPC: * H01L-023/12
Derwent WPI Acc No: * G 98-192781; G 99-214202
Language of Document: Japanese
Patent (No,Kind,Date): JP 3121562 B2 20010109
Patent Assignee: IBM
Author (Inventor): ERITSUKU AASAA JONSON
Priority (No,Kind,Date): US 666155 A 19960619
Applic (No,Kind,Date): JP 97154889 A 19970612
IPC: * H01L-023/12
Language of Document: Japanese

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5726079 A 19980310
THERMALLY ENHANCED FLIP CHIP PACKAGE AND METHOD OF FORMING (English)
Patent Assignee: IBM (US)
Author (Inventor): JOHNSON ERIC ARTHUR (US)
Priority (No,Kind,Date): US 715212 A 19960917; US 666155 B3 19960619
Applic (No,Kind,Date): US 715212 A 19960917
National Class: * 438106000; 438108000; 438127000
IPC: * H01L-021/44
Derwent WPI Acc No: * G 98-192781; G 98-192781
Language of Document: English
Patent (No,Kind,Date): US 5883430 A 19990316
THERMALLY ENHANCED FLIP CHIP PACKAGE (English)
Patent Assignee: IBM (US)

Author (Inventor): JOHNSON ERIC ARTHUR (US)
 Priority (No,Kind,Date): US 842417 A 19970424; US 715212 A3
 19960917; US 666155 B3 19960619
 Applic (No,Kind,Date): US 842417 A 19970424
 Addnl Info: 5726079 19980310 Patented
 National Class: * 257706000; 257712000; 257720000; 257778000;
 257796000
 IPC: * H01L-023/10; H01L-023/34; H01L-023/48; H01L-023/52
 Derwent WPI Acc No: * G 98-192781; G 99-214202; G 99-214202
 Language of Document: English
 Patent (No,Kind,Date): US 6104093 A 20000815
 THERMALLY ENHANCED AND MECHANICALLY BALANCED FLIP CHIP PACKAGE AND
 METHOD OF FORMING (English)
 Patent Assignee: IBM (US)
 Author (Inventor): CALETKA DAVID V (US); DERY JEAN (CA); DUCHESNE
 ERIC (CA); GAYNES MICHAEL A (US); JOHNSON ERIC A (US); MATIENZO
 LUIS J (US); WILCOX JAMES R (US)
 Priority (No,Kind,Date): US 80117 A 19980515; US 842417 A2
 19970424
 Applic (No,Kind,Date): US 80117 A 19980515
 Addnl Info: 5883430 Patented
 National Class: * 257778000; 257706000; 257737000
 IPC: * H01L-023/48
 Derwent WPI Acc No: ; C 00-505551
 Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

US 5726079	P	19960619	US AA	PRIORITY
			US 666155 B3	19960619
US 5726079	P	19960917	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 715212 A	19960917
US 5726079	P	19980310	US A	PATENT
US 5726079	P	19991026	US RF	REISSUE APPLICATION FILED
			(REISSUE APPL. FILED)	
			19990824	
US 5883430	P	19960619	US AA	PRIORITY
			US 666155 B3	19960619
US 5883430	P	19960917	US AA	PRIORITY
			US 715212 A3	19960917
US 5883430	P	19970424	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 842417 A	19970424
US 5883430	P	19990316	US A	PATENT
US 5883430	P	19990810	US CC	CERTIFICATE OF CORRECTION
US 6104093	P	19970424	US AA	PRIORITY
			US 842417 A2	19970424
US 6104093	P	19980515	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 80117 A	19980515
US 6104093	P	20000815	US A	PATENT

1/1 PLUSPAT - (C) QUESTEL-ORBIT

PN - US5726079 A 19980310 {US5726079}

TI - (A) Thermally enhanced flip chip package and method of forming

PA - (A) IBM (US)

IN - (A) JOHNSON ERIC ARTHUR (US)

AP - US71521296 19960917 [1996US-0715212]

PR - US66615596 19960619 [1996US-0666155]

- US71521296 19960917 [1996US-0715212]

IC - (A) H01L-021/44

EC - H01L-021/60C4

- H01L-023/31H2

- H01L-023/433E

PCL - ORIGINAL (O) : 438106000; CROSS-REFERENCE (X) : 438108000 438127000

DT - Basic

CT - US5289346; US5359768; US5405809; US5410451; US5471027; US5490324

STG - (A) United States patent

AB - A thermally conductive planar member is in thermally conductive communication with a flip chip encapsulated within a dielectric material that surrounds portions of the thermally conductive planar member, the flip-chip, and a predefined portion of a substrate member. The present invention provides a flip chip package having pick-and-place capability without the thermal resistance disadvantage of capped chip packages.

1/1 LGST - (C) LEGSTAT

PN - US 5726079 {US5726079}

AP - US 715212/96 19960917 [1996US-0715212]

DT - US-P

ACT - 19960917 US/AE-A

APPLICATION DATA (PATENT)

{US 715212/96 19960917 [1996US-0715212]}

- 19980310 US/A

PATENT

- 19991026 US/RF

REISSUE APPLICATION FILED

19990824

UP - 1999-44

1/1 CRXX - (C) CLAIMS/RXX

AN - 2951191

PN - 5,726,079 A 19980310 {US5726079}

PA - International Business Machines Corp

PT - C (Chemical)

ACT - 19990824 REISSUE REQUESTED

Issue Date of O.G.: 19991026

Reissue Request Number: 09/379985

Examination Group responsible for Reissue process: 2812

UP - 1999-42

UACT- 1999-10-26

1/1 PAST - (C) PAST

AN - 199943-001333

PN - 5726079 A [US5726079]
DT - A (UTILITY)
OG - 1999-10-26
CO - REA
ACT - REISSUE APPLICATION FILED
SH - REISSUE APPLICATION FILED

Source: All Sources : Area of Law - By Topic : Patent Law : Patents : U.S. Patents : Utility Patents Terms: patno is 5,726,079 ([Edit Search](#))

Pat. No. 5726079, *

~~5,726,079~~◆ GET 1st DRAWING SHEET OF 2

Mar. 10, 1998

Thermally enhanced flip chip package and method of forming

REISSUE: Reissue Application filed Aug. 24, 1999 (O.G. Oct. 26, 1999) Ex. Gp.: 2812; Re. S.N. 09/379,985**INVENTOR:** Johnson, Eric Arthur, Greene, New York**ASSIGNEE-AT-ISSUE:** International Business Machines Corporation, Armonk, New York (02)**APPL-NO:** 715,212**FILED:** Sep. 17, 1996**REL-US-DATA:**

Division of Ser. No. 666,155, Jun. 19, 1996 now abandoned

INT-CL: [6] H01L 21#44**US-CL:** 438#106; 438#108; 438#127**CL:** 438**SEARCH-FLD:** 437#209, 211, 214, 215, 217, 218, 219, 402**REF-CITED:****U.S. PATENT DOCUMENTS**

5,289,346	2/1994	* Carey et al.	437#209
5,359,768	11/1994	* Haley	437#209
5,405,809	4/1995	* Nakamura et al.	437#211
5,410,451	4/1995	* Hawthorne et al.	437#209
5,471,027	11/1995	* Call et al.	437#902
5,490,324	2/1996	* Newman	437#209

PRIM-EXMR: Picardat, Kevin**LEGAL-REP:** Mobley, Esq.; Michele A.
Jenkins & Gilchrist, P.C.
Tiegerman, Esq.; Bernard**CORE TERMS:** chip, flip, planar, thermally, conductive, substrate, package, mold, cavity, dielectric, thickness, electrical, predefined, embodying, thermal, upper surface, adhesive,

lexis.comsm[Practice Pages](#) [Change Client](#) [Options](#) [Feedback](#) [Sign Off](#) [Help](#)**Search**[Search Advisor](#)[Get a Document](#)[Check a Citation](#)[ECLIPSEtm](#)[History](#)**Sources**

[All Sources](#) : [Area of Law - By Topic](#) : [Patent Law](#) : [Multi-Source Groups](#) : [Patent Cases from Federal Courts and Administrative Materials](#) **i**

Enter Search Terms☒ **Terms and Connectors** ☐ Natural Language

5726079 or 5,726,079 or us5726079 or
us5,726,079

SearchUse connectors to show relation of terms (cat or feline, jane w/3 doe) [more...](#)☒ **Suggest Words and Concepts for Entered Terms**☒ **Restrict Search Using Document**

Optional: Restrict by Date

☒ **No Date Restrictions** ☐ From To

[Search](#) | [Search Advisor](#) | [Get a Document](#) | [Check a Citation](#)
[ECLIPSE\(TM\)](#) | [History](#) | [Practice Pages](#) | [Change Client](#) | [Options](#) | [Feedback](#) | [Sign Off](#) | [Help](#)
[About LEXIS-NEXIS](#) | [Terms and Conditions](#)

Copyright © 2001 LEXIS-NEXIS Group. All rights reserved.

No Documents Found

No documents were found for your search (**5726079 or 5,726,079 or us5726079 or us5,726,079**). Please edit your search and try again.
You may want to try one or more of the following:

- Check for spelling errors.
- Remove some search terms.
- Use more common search
- If applicable, look for all dates.

[Edit Search](#)

[About LEXIS-NEXIS](#) | [Terms and Conditions](#)

Copyright © 2001 LEXIS-NEXIS Group. All rights reserved.

lexis.com[®][Practice Pages](#) | [Change Client](#) | [Options](#) | [Feedback](#) | [Sign Off](#) | [Help](#)**Search**[Search Advisor](#)[Get a Document](#)[Check a Citation](#)ECLIPSE[™][History](#)**Sources**

All Sources : Area of Law - By Topic : Patent Law : Law Reviews & Journals : Intellectual Property Law : Review Articles **1**

Enter Search Terms☒ **Terms and Connectors** ☐ Natural Language

5726079 or 5,726,079 or us5726079 or
us5,726,079

SearchUse connectors to show relation of terms (cat or feline, jane w/3 doe) [more...](#)☒ **Suggest Words and Concepts for Entered Terms**☒ **Restrict Search Using Document**

Optional: Restrict by Date

☒ **No Date Restrictions**

O From

To

[Search](#) | [Search Advisor](#) | [Get a Document](#) | [Check a Citation](#)
[ECLIPSE\(TM\)](#) | [History](#) | [Practice Pages](#) | [Change Client](#) | [Options](#) | [Feedback](#) | [Sign Off](#) | [Help](#)
[About LEXIS-NEXIS](#) | [Terms and Conditions](#)

Copyright © 2001 LEXIS-NEXIS Group. All rights reserved.

No Documents Found

No documents were found for your search (5726079 or 5,726,079 or us5726079 or us5,726,079). Please edit your search and try again.

You may want to try one or more of the following:

- Check for spelling errors.
- Remove some search terms.
- Use more common search
- If applicable, look for all dates.

[Edit Search](#)

[About LEXIS-NEXIS](#) | [Terms and Conditions](#)

Copyright © 2001 LEXIS-NEXIS Group. All rights reserved.

lexis.com[®][Practice Pages](#) [Change Client](#) [Options](#) [Feedback](#) [Sign Off](#) [Help](#)**Search**[Search Advisor](#)[Get a Document](#)[Check a Citation](#)[ECLIPSE™](#)[History](#)**Sources**

[All Sources](#) : [Area of Law - By Topic](#) : [Patent Law](#) : [Law Reviews & Journals](#) : [Harvard Journal of Law & Technology](#) **1**

Enter Search Terms☒ **Terms and Connectors** ☐ Natural Language

5726079 or 5,726,079 or us5726079 or
us5,726,079

Search

Use connectors to show relation of terms (cat or feline, jane w/3 doe) [more...](#)

☒ **Suggest Words and Concepts for Entered Terms**☒ **Restrict Search Using Document****Optional: Restrict by Date**☒ **No Date Restrictions**☐ From To

[Search](#) | [Search Advisor](#) | [Get a Document](#) | [Check a Citation](#)
[ECLIPSE\(TM\)](#) | [History](#) | [Practice Pages](#) | [Change Client](#) | [Options](#) | [Feedback](#) | [Sign Off](#) | [Help](#)
[About LEXIS-NEXIS](#) | [Terms and Conditions](#)

Copyright © 2001 LEXIS-NEXIS Group. All rights reserved.

No Documents Found

No documents were found for your search (**5726079** or **5,726,079** or **us5726079** or **us5,726,079**). Please edit your search and try again.

You may want to try one or more of the following:

- Check for spelling errors.
- Remove some search terms.
- Use more common search
- If applicable, look for all dates.

[Edit Search](#)

[About LEXIS-NEXIS](#) | [Terms and Conditions](#)

Copyright © 2001 LEXIS-NEXIS Group. All rights reserved.

lexis.com®

[Practice Pages](#) [Change Client](#) [Options](#) [Feedback](#) [Sign Off](#) [Help](#)**Search**[Search Advisor](#)[Get a Document](#)[Check a Citation](#)

ECLIPSE™

[History](#)**Sources**

[All Sources](#) : [Area of Law - By Topic](#) : [Patent Law](#) : [Law Reviews & Journals](#) : [Journal of Law and Technology](#) **1**

Enter Search Terms☒ **Terms and Connectors** ☐ Natural Language

5726079 or 5,726,079 or us5726079 or
us5,726,079

Search

Use connectors to show relation of terms (cat or feline, jane w/3 doe) [more...](#)

☒ **Suggest Words and Concepts for Entered Terms**☒ **Restrict Search Using Document****Optional: Restrict by Date**☒ **No Date Restrictions** ☐ From To

[Search](#) | [Search Advisor](#) | [Get a Document](#) | [Check a Citation](#)
[ECLIPSE\(TM\)](#) | [History](#) | [Practice Pages](#) | [Change Client](#) | [Options](#) | [Feedback](#) | [Sign Off](#) | [Help](#)
[About LEXIS-NEXIS](#) | [Terms and Conditions](#)

Copyright © 2001 LEXIS-NEXIS Group. All rights reserved.

No Documents Found

No documents were found for your search (**5726079 or 5,726,079 or us5726079 or us5,726,079**). Please edit your search and try again.
You may want to try one or more of the following:

- Check for spelling errors.
- Remove some search terms.
- Use more common search
- If applicable, look for all dates.

[Edit Search](#)

[About LEXIS-NEXIS](#) | [Terms and Conditions](#)

Copyright © 2001 LEXIS-NEXIS Group. All rights reserved.

lexis.com[®][Practice Pages](#) [Change Client](#) [Options](#) [Feedback](#) [Sign Off](#) [Help](#)**Search**[Search Advisor](#)[Get a Document](#)[Check a Citation](#)ECLIPSE[™][History](#)**Sources**All Sources : [News](#) : [News Group File](#), All [i](#)**Enter Search Terms**☒ Terms and Connectors ☐ Natural Language5726079 or 5,726,079 or us5726079 or
us5,726,079**Search**Use connectors to show relation of terms (cat or feline, jane w/3 doe) [more...](#)☒ Suggest Words and Concepts for Entered Terms☒ Restrict Search Using Document

Optional: Restrict by Date

☒ No Date Restrictions ☐☐ From To

[Search](#) | [Search Advisor](#) | [Get a Document](#) | [Check a Citation](#)
[ECLIPSE\(TM\)](#) | [History](#) | [Practice Pages](#) | [Change Client](#) | [Options](#) | [Feedback](#) | [Sign Off](#) | [Help](#)
[About LEXIS-NEXIS](#) | [Terms and Conditions](#)

Copyright © 2001 LEXIS-NEXIS Group. All rights reserved.

No Documents Found

No documents were found for your search (5726079 or 5,726,079 or us5726079 or us5,726,079). Please edit your search and try again.

You may want to try one or more of the following:

- Check for spelling errors.
- Remove some search terms.
- Use more common search
- If applicable, look for all dates.

[Edit Search](#)

[About LEXIS-NEXIS](#) | [Terms and Conditions](#)

Copyright © 2001 LEXIS-NEXIS Group. All rights reserved.